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Amendment to the Claims

(currently amended) A process for a simplified access control language that controls
 access to directory entries in a computer environment, comprising the steps of:

providing a system administrator defined creating a read access control list (ACL) command for a user[[;]], wherein said

said system administrator defined read access control <u>list</u> command <u>listing lists</u> a set of Lightweight Directory Access Protocol <u>(LDAP)</u> user attributes <u>that are selected created</u> and controlled by said administrator;

sald user <u>applying said read access control list command by listing selecting</u> a subset from said system administrator defined LDAP user attributes for allowing <u>authorizing</u> user defined read access to said subset of user attributes to <u>one or more</u> other users[[;]], and by listing

providing a user defined access central command attribute read list containing user identifications of said one or more other users such that said one or more other users that are allowed authorized to have read access to said user defined subset of said system administrator defined LDAP user attributes; and

storing said read access control list command in a directory, said directory containing said user attributes; and

responsive to one or more other users accessing any of said user attributes in said directory, said read access control <u>list</u> command referring to said user defined read list of <u>user identifications</u> at runtime thereby allowing said read user identifications one or more other users read access to said system administrator defined LDAP user attributes[[;]]

wherein said-read access-control-command resides in a directory-containing-said-L-DAP attributes.

- 2. (original) The process of Claim 1, wherein upon a client read access, the directory server selects a specific read access control command according to the attribute being accessed and refers to the read list of the owner of the attribute being accessed to determine if said client has permission to execute said read access.
- 3. (original) The process of Claim 1, further comprising the steps of:

providing a user defined write list containing user identifications that are allowed to write a specified set of attributes;

providing a system administrator defined write access control command;

said write access control command listing the user attributes that said administrator has selected for user defined write access; and

said write access control command referring to said user defined write list thereby allowing said write user identifications write access to said user attributes.

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4. (original) The process of Claim 3; wherein upon a client write access, the directory server selects a specific write access control command according to the attribute being accessed and refers to the write list of the owner of the attribute being accessed to determine if said client has permission to execute said write access.

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5. (currently amended) A process for a simplified access control language that controls access to directory entries in a computer environment, comprising the steps of:

providing for a user a system administrator <u>creating a defined read access control list</u> (ACL) command that lists Lightweight Directory Access Protocol (LDAP) user attributes that said administrator has eelected <u>created</u> for user defined read access, said user selecting a subset of <u>user-defined said</u> LDAP user attributes from said list for read access to <u>one or more</u> other users;

previding for a user a system administrator creating a defined write access control <u>list</u> (ACL) command that lists Lightweight Directory Access Protocol (LDAP) user attributes that said administrator has selected <u>created</u> for user defined write access, said user selecting a subset of <u>user-defined said</u> LDAP user attributes from said list for write access to <u>one or more other users</u>;

providing a plurality of user defined access control <u>list</u> command attribute read lists containing user identifications <u>of said one or more other users</u> that are allowed to read said user defined subset from said LDAP user attributes that said administrator has selected <u>created</u> for user defined read access; and

providing a plurality of user defined access control <u>list</u> command attribute write lists containing user identifications <u>of said one or more other users</u> that are allowed to write said user defined subset from said LDAP user attributes that said administrator has selected <u>created</u> for user defined write access; <u>and</u>

wherein storing said read access control <u>list</u> command and said write access control <u>list</u> command reside in a directory containing said LDAP user attributes;

wherein when a client responsive to one or more other users requesting read access to one of the LDAP user attributes that said administrator has selected for user defined read access occurs, applying said read access control list command and the read list of the owner

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of the attribute being accessed are-used to determine if said client one or more other users has permission to execute said read access; and

wherein when a client responsive to one or more other users requesting write access to one of the LDAP user attributes that said administrator has selected for user defined write access occurs, applying said write access control <u>list</u> command and the write list of the owner of the attribute being accessed are used to determine if said client one or more other users has permission to execute said write access.

6. (currently amended) A process for a simplified access control language that controls access to directory entries in a computer environment, comprising the steps of:

providing a system administrator defined <u>creating a write access control list (ACL)</u> command for a user[[;]], wherein said

said system administrator defined write access control <u>list</u> command <u>listing lists</u> a set of Lightweight Directory Access Protocol (<u>LDAP</u>) user attributes <u>that are</u> selected <u>created</u> and controlled by said administrator;

said user <u>applying said write access control list command by listing eelecting</u> a subset from said system administrator defined LDAP user attributes for <u>allowing authorizing user defined</u> write access to said subset of user attributes to <u>one or more</u> other users[[;]], and by listing

providing a user defined-access control command attribute write list containing user identifications of said one or more other users such that said one or more other users that are allowed authorized to have write access to said user defined subset of said system administrator defined LDAP user attributes; and

storing said write access control list command in a directory, said directory containing said user attributes; and

responsive to one or more other users accessing any of said user attributes in said directory, said write access control <u>list</u> command referring to said user defined write list of user identifications at runtime thereby allowing said write user identifications one or more other users write access to said system administrator defined LDAP user attributes[[;]]

wherein said write access control command resides in a directory containing said LDAP attributes.

7. (original) The process of Claim 6, wherein upon a client write access, the directory server selects a specific write access control command according to the attribute being accessed and refers to the write list of the owner of the attribute being accessed to determine if said client has permission to execute said write access.

8. (original) The process of Claim 6, further comprising the steps of:

providing a user defined read list containing user identifications that are allowed to read a specified set of attributes; and

providing a system administrator defined read access control command;

wherein said read access control command lists the user attributes that said administrator has selected for user defined read access; and wherein said read access control command refers to said user defined read list thereby allowing said read user identifications read access to said user attributes.

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9. (original) The process of Claim 8, wherein upon a client read access, the directory server selects a specific read access control command according to the attribute being accessed and refers to the read list of the owner of the attribute being accessed to determine if said client has permission to execute said read access.

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10. (currently amended) An apparatus for a simplified access control language that controls access to directory entries in a computer environment, comprising:

means for a system administrator defined creating a read access control <u>list (ACL)</u> command for a user[[;]], wherein said

command for a user[[;]], wherein said
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means for said system administrator-defined read access control <u>list</u> command <u>listing</u> <u>lists</u> a set of Lightweight Directory Access Protocol <u>(LDAP)</u> user attributes <u>that are</u> selected <u>created</u> and controlled by said administrator;

means for said user <u>applying said read access control list command by listing</u> selecting a subset from said system administrator defined LDAP user attributes for allowing <u>authorizing user defined</u> read access <u>to said subset of user attributes</u> to <u>one or more</u> other users[[:]] and by listing

a user defined access control—command attribute read list containing—user identifications of said one or more other users such that said one or more other users that are allowed authorized to have read access to said user defined subset of said system administrator defined LDAP user attributes; and

means for storing said read access control list command in a directory, said directory containing said user attributes; and

responsive to one or more other users accessing any of sald user attributes in said directory, means for said read access control <u>list</u> command referring to said user defined read list of user identifications at runtime thereby allowing said read-user identifications one or more other users read access to said system administrator defined LDAP user attributes[[;]]

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wherein said read access control command resides in a directory containing said LDAP-user attributes.

- 11 (original) The apparatus of Claim 10, wherein upon a client read access, the directory server selects a specific read access control command according to the attribute being accessed and refers to the read list of the owner of the attribute being accessed to determine if said client has permission to execute said read access.
- 12. (original) The apparatus of Claim 10, further comprising:
- a user defined write list containing user identifications that are allowed to write a specified set of attributes; and

a system administrator defined write access control command;

wherein said write access control command lists the user attributes that said administrator has selected for user defined write access; and

wherein said write access control command refers to said user defined write list thereby allowing said write user identifications write access to said user attributes.

- 13. (original) The apparatus of Claim 12, wherein upon a client write access, the directory server selects a specific write access control command according to the attribute being accessed and refers to the write list of the owner of the attribute being accessed to determine if said client has permission to execute said write access.
- 14. (currently amended) An apparatus for a simplified access control language that controls access to directory entries in a computer environment, comprising:

means for a system administrator creating a defined read access control <u>list (ACL)</u> command for a user that lists Lightweight Directory Access Protocol (LDAP) user attributes that said administrator has selected created for user defined read access, said user selecting a subset of user defined <u>said</u> LDAP user attributes from sald list for read access to <u>one or</u> more other users;

means for a system administrator creating a defined write access control list (ACL) command for a user that lists LDAP user attributes that said administrator has selected created for user defined write access, said user selecting a subset of user defined said LDAP user attributes from said list for write access to one or more other users;

a plurality of user defined access control <u>list</u> command attribute read lists containing user identifications of said one or more other users that are allowed to read said user defined

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subset from said LDAP user attributes that said administrator has eelected <u>created</u> for user defined read access; and

a plurality of user defined access control <u>list</u> command attribute write lists containing user identifications of said one or more other users that are allowed to write said user defined subset from said LDAP user attributes that said administrator has selected <u>created</u> for user defined write access, <u>and</u>

wherein storing said read access control <u>list</u> command and said write access control <u>list</u> command reside in a directory containing said LDAP user attributes;

wherein when a client responsive to one or more other users requesting read access to one of the LDAP user attributes that said administrator has selected for user defined read access occurs, applying said read access control <u>list</u> command and the read list of the owner of the attribute being accessed are used to determine if said client one or more other users has permission to execute said read access; and

wherein when a client responsive to one or more other users requesting write access to one of the LDAP user attributes that said administrator has selected for user defined write access occurs, applying said write access control <u>list</u> command and the write list of the owner of the attribute being accessed are used to determine if said client <u>one or more other users</u> has permission to execute said write access.

15. (currently amended) An apparatus for a simplified access control language that controls access to directory entries in a computer environment, comprising:

means for a system administrator defined creating a write access control <u>list (ACL)</u> command for a user[[;]], wherein said

means for sald-system administrator defined write access control <u>list</u> command <u>listing</u> <u>lists</u> a set of Lightweight Directory Access Protocol (<u>LDAP</u>) user attributes <u>that are</u> selected <u>created</u> and controlled by said administrator;

means for said user <u>applying said write access control list command by listing</u> selecting a subset from said system administrator defined LDAP user attributes for allowing <u>authorizing user defined</u> write access to said subset of user attributes to <u>one or more</u> other users[[;]], and by listing

a user defined access control command attribute write list containing user identifications of said one or more other users such that said one or more other users that are allowed authorized to have write access to said user defined subset of said system administrator defined LDAP user attributes; and

means for storing said write access control list command in a directory, said directory containing said user attributes; and

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responsive to one or more other users accessing any of said user attributes in said directory, means for said write access control <u>list</u> command referring to said user defined write list of user identifications at runtime thereby allowing said write user identifications one or more other users write access to said system administrator defined LDAP user attributes[[;]]

wherein-said write access central command resides in a directory containing said LDAP-user attributes.

- 16. (original) The apparatus of Claim 15, wherein upon a client write access, the directory server selects a specific write access control command according to the attribute being accessed and refers to the write list of the owner of the attribute being accessed to determine if said client has permission to execute said write access.
 - 17. (original) The apparatus of Claim 15, further comprising:
- a user defined read list containing user identifications that are allowed to read a specified set of attributes;
 - a system administrator defined read access control command;
 - wherein said read access control command lists the user attributes that said administrator has selected for user defined read access; and
 - wherein said read access control command refers to said user defined read list thereby allowing said read user identifications read access to said user attributes.
 - 18. (original) The apparatus of Claim 17, wherein upon a client read access, the directory server selects a specific read access control command according to the attribute being accessed and refers to the read list of the owner of the attribute being accessed to determine if said client has permission to execute said read access.
 - 19.(currently amended) A program storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform method steps for a simplified access control language that controls access to directory entries in a computer environment, comprising the steps of:
 - providing a system administrator defined creating a read access control <u>list (ACL)</u> command for a user[[;]], wherein said
 - said-system administrator-defined-read access control <u>list</u> command <u>listing lists</u> a set of Lightweight Directory Access Protocol (<u>LDAP</u>) user attributes <u>that are selected created</u> and controlled by said administrator;

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said user <u>applying said read access control list command by listing selecting</u> a subset from said system administrator defined LDAP user attributes for allowing <u>authorizing</u> user-defined read access to said subset of user attributes to <u>one or more</u> other users[[;]], and by listing

providing a user defined access control command attribute read list containing user identifications of said one or more other users such that said one or more other users that are allowed authorized to have read access to said user defined subset of said system administrator defined LDAP user attributes; and

storing said read access control list command in a directory, said directory containing said user attributes; and

responsive to one or more other users accessing any of said user attributes in said directory, said read access control <u>list</u> command referring to said user defined read list of <u>user identifications</u> at runtime thereby allowing said read user identifications one or more other users read access to said system administrator defined LDAP user attributes[[;]]

wherein said read access control command resides in a directory containing said LDAP attributes.

20.(original) The method of Claim 19, wherein upon a client read access, the directory server selects a specific read access control command according to the attribute being accessed and refers to the read list of the owner of the attribute being accessed to determine if said client has permission to execute said read access.

21. (original) The method of Claim 19, further comprising the steps of:

providing a user defined write list containing user identifications that are allowed to write a specified set of attributes;

providing a system administrator defined write access control command;

said write access control command listing the user attributes that said administrator has selected for user defined write access; and

said write access control command referring to said user defined write list thereby allowing said write user identifications write access to said user attributes.

22. (original) The method of Claim 21, wherein upon a client write access, the directory server selects a specific write access control command according to the attribute being accessed and refers to the write list of the owner of the attribute being accessed to determine if said client has permission to execute said write access.

23. (currently amended) A program storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform method steps for a simplified access control language that controls access to directory entries in a computer environment, comprising the steps of:

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providing for a user a system administrator creating a defined read access control list (ACL) command that lists Eightweight Directory Access Protocol (EDAP) user attributes that said administrator has selected created for user defined read access, said user selecting a subset of user-defined said LDAP user attributes from said list for read access to one or more other users:

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providing for a user a system administrator creating a defined write access control list (ACL) command that lists Lightweight Directory Access Protocol (LDAP) user attributes that said administrator has selected created for user defined write access, said user selecting a subset of user-defined said LDAP user attributes from said list for write access to one or more other users;

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providing a plurality of user defined access control list command attribute read lists containing user identifications of said one or more other users that are allowed to read said user defined subset from said LDAP user attributes that said administrator has selected created for user defined read access; and

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providing a plurality of user defined access control list command attribute write lists containing user identifications of said one or more other users that are allowed to write said user defined subset from said LDAP user attributes that said administrator has selected created for user defined write access; and

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wherein storing said read access control list command and said write access control list command reside in a directory containing said LDAP user attributes;

wherein when a client responsive to one or more other users requesting read access to one of the LDAP user attributes that said administrator has selected for user defined read access occurs, applying said read access control list command and the read list of the owner of the attribute being accessed are used to determine if said elient one or more other users has permission to execute said read access; and

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wherein when a client responsive to one or more other users requesting write access to one of the LDAP user attributes that said administrator has selected for user defined write access occurs, applying said write access control list command and the write list of the owner of the attribute being accessed are used to determine if said client one or more other users has permission to execute said write access.

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24. (currently amended) A program storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform method steps for a simplified access control language that controls access to directory entries in a computer environment, comprising the steps of:

providing a system administrator defined <u>creating a</u> write access control <u>list (ACL)</u> command for a user[[;]], wherein said

said-system administrator defined write access control <u>list</u> command <u>listing lists</u> a set of Lightweight Directory Access Protocol <u>(LDAP)</u> user attributes <u>that are</u> selected <u>created</u> and controlled by said administrator;

said user <u>applying said write access control list command by listing selecting</u> a subset from said system administrator defined LDAP user attributes for <u>allowing authorizing user defined</u> write access <u>to said subset of user attributes</u> to <u>one or more</u> other users[[;]], and by listing

providing a user defined access central command attribute write list containing user identifications of said one or more other users such that said one or more other users that are allowed authorized to have write access to said user defined subset of said system administrator defined LDAP user attributes; and

storing said write access control list command in a directory, said directory containing said user attributes; and

responsive to one or more other users accessing any of said user attributes in said directory, said write access control <u>list</u> command referring to said user defined write list <u>of user identifications</u> at runtime thereby allowing said write user identifications one or more other users write access to said system administrator defined LDAP user attributes[[:]]

wherein said write-access-control command resides in a directory containing said LDAP attributes.

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